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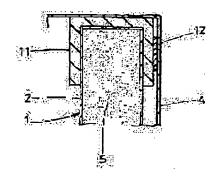
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(54) HEAT INSULATING BODY STRUCTURE

(57)Abstract:

PURPOSE: To improve mounting workability in the case of fixing a vaccum heat insulating material to a mounted surface, by providing a fixing tool for holding an edge part of the vacuum heat insulating material. and mounting this fixing tool in the mounted surface. CONSTITUTION: In a vacuum heat insulating material 1, between two sheets of gas barrier films 2 laminating a heat fusing layer consisting of polyethylene or polypropylene, aluminum layer and a surface protective layer from the inside, a continuously foaming polyurethane heat insulating material 5 is inserted, and after the inside is vacuumized in a vacuum exhaust device, a peripheral edge part of the gas barrier film 2 is heated to mutually fuse the heat fusing layer sealed, so as to form the vacuum heat insulating material 1. In an edge part of the vacuum heat insulating material 1 thus obtained, a fixing tool 11, formed in almost U-shaped section by plastic extrusion molding, is fitted. In the



case of fixing the vacuum heat insulating material 1 to a side wall outer plate 4 as a mounted surface of paint steel plate or the like, the vacuum heat insulating material 1 is arranged in a prescribed position in an internal surface of the side wall outer plate 4, to fix the material through an adhesive agent tape 12.

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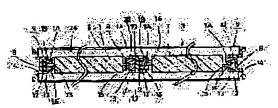
(72)Inventor: TAKEMASA KAZUO

SHIMIZU TAKAYUKI SAKATA YASUSHI YAMAOKA KAZUJI HAGIGUCHI SADAMI

(54) HEAT INSULATING BODY STRUCTURE

(57)Abstract:

PURPOSE: To improve workability of mounting a vacuum heat insulating material while increasing strength of mounting the vacuum heat insulating material by forming a holding part integrally in a breaker connecting inner/outer plates, and holding an edge part of the vacuum heat insulating material by this holding part directly or through an assist tool. CONSTITUTION: A vacuum heat insulating material 1 is formed by inserting a foaming polyurethane heat insulating material between two sheets of gas barrier films, laminating from the inside a heat melting layer, aluminum layer and a surface protective layer, after exhausting the inside, and by heating an edge part 1A of the film to mutually fuse the heat melting layer sealed. In the case of mounting, for instance, two sheets connected of the vacuum heat insulating material 1 thus obtained, an assist tool 9 is inserted to the edge part 1A of the vacuum heat insulating material 1, to insert this assist tool 9 to a holding part



12 of a breaker 8 and to a holding part 17 of a connecting tool 10. Thereafter, outer/inner plates 6, 7 are built in the breaker 8, to charge with an urethane heat insulating material 24 by a jobsite foaming system, so as to complete a side wall 3 as a heat insulating body structure.

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